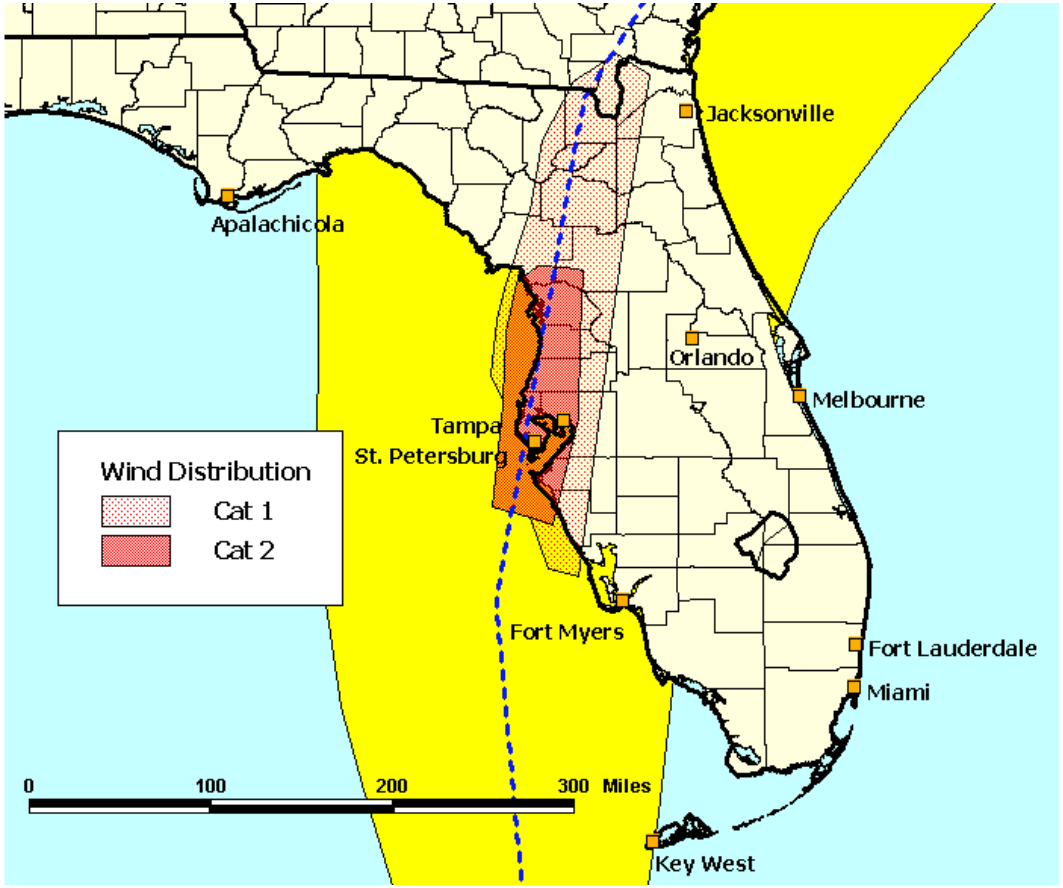
Hurricane Charley Wind Distribution

Landfall Expected Within *24* Hours

For Official Use Only!



Most Probable Landfall Wind Distribution

This hurricane scenario is based on a HIGH Category 2 storm making landfall in near proximity to Saint Petersburg, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 08/12/2004)*** forecast.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Wind Field

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

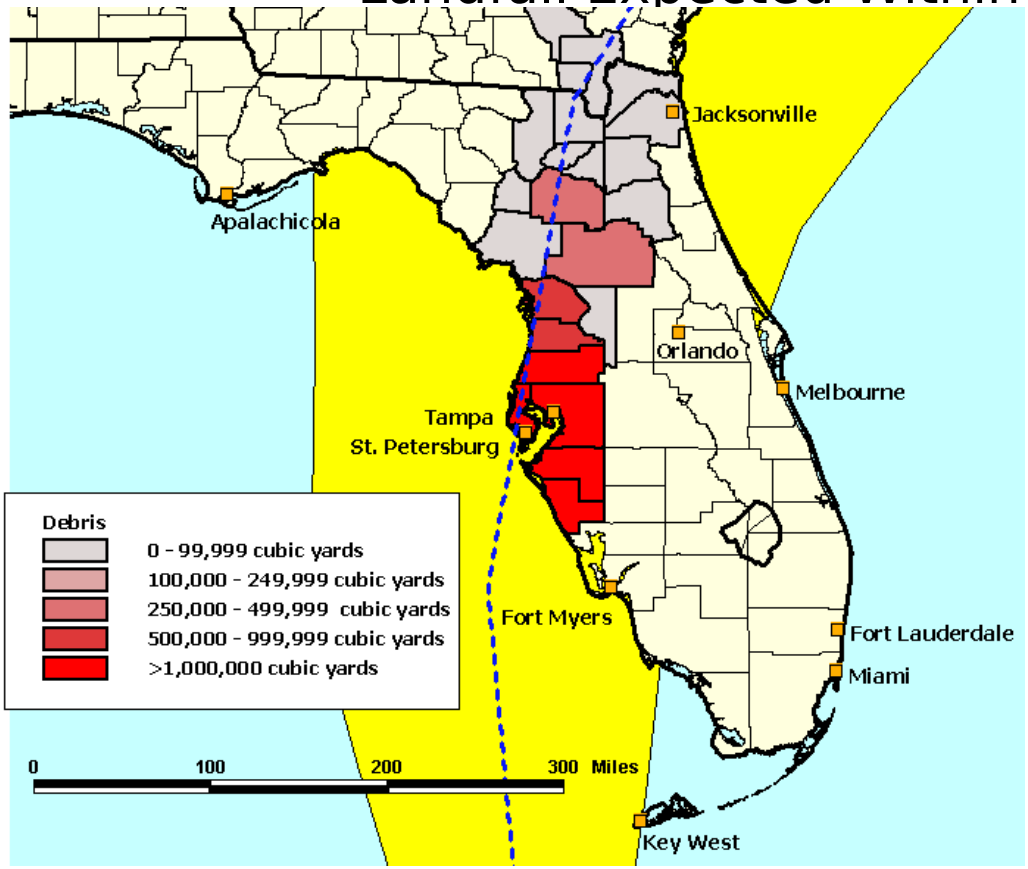
Generated By:
Terry Siemsen

Generated Date:
1730 EDT
08/12/2004

Hurricane Charley Debris Model

Landfall Expected Within *24* Hours

For Official Use Only!



Most Probable Landfall Debris Model Results

Florida – 23,623,000 yd^3
Georgia – 5,000 yd3

Model results per county on following page

This hurricane scenario is based on a HIGH Category 2 storm making landfall in near proximity to Saint Petersburg,FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 08/12/2004)*** forecast.

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Debris Model

Sources: HURREVAC, LRL-DEBRIS

Generated By: Terry Siemsen

Generated Date: 1730 EDT 08/12/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Debris Model

Landfall Expected Within ***24*** Hours

For Official Use Only!

State	Yards per State	County	Yards per County
Florida	23,623,000		
		Alachua	362,000
		Baker	28,000
		Bradford	31,000
		Citrus	770,000
		Clay	34,000
		Columbia	29,000
		Duval	16,000
		Gilchrist	3,000
		Hernando	928,000
		Hillsborough	6,235,000
		Levy	56,000
		Manatee	2,055,000
		Marion	399,000
		Nassau	23,000
		Pasco	2,384,000
		Pinellas	8,929,000
		Putnam	10,000
		Sarasota	1,289,000
		Sumter	32,000
		Union	12,000
Georgia	5,000		
		Charlton	3,000
		Ware	2,000
Total Yards	23,628,000		23,628,000

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Debris Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

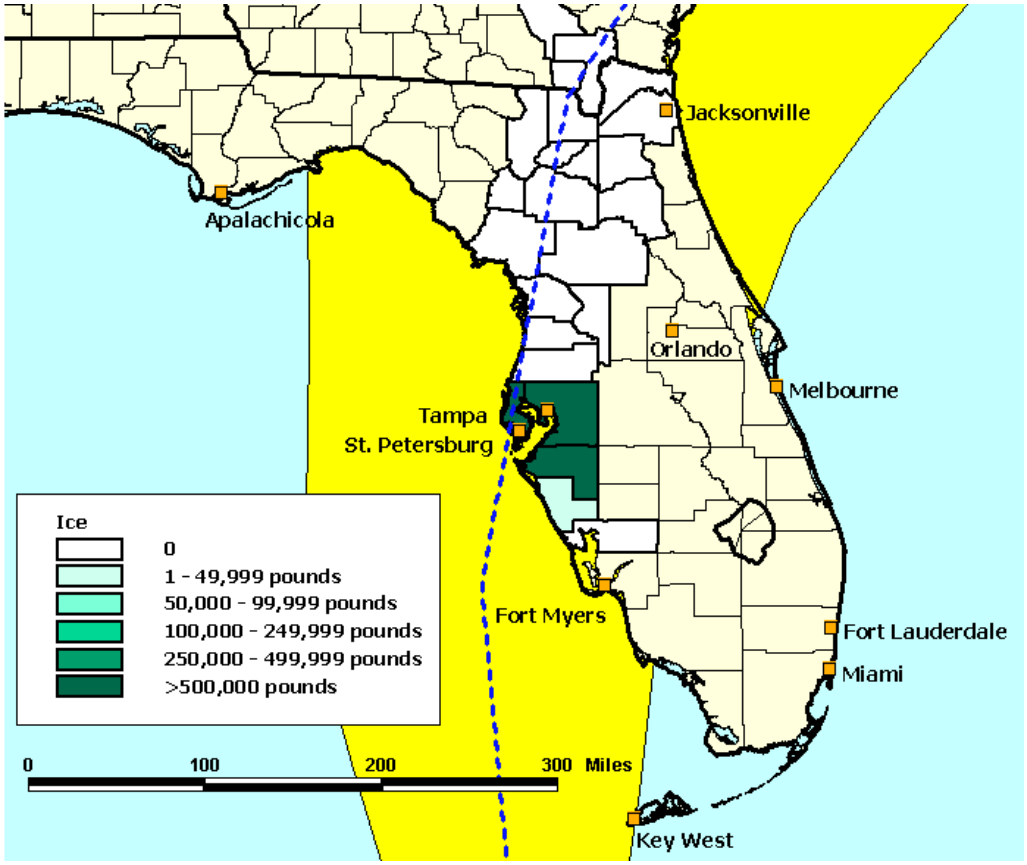
Generated By:
Terry Siemsen

Generated Date:
1730 EDT
08/12/2004

Hurricane Charley Ice Model

Landfall Expected Within *24* Hours

For Official Use Only!



Most Probable Landfall Ice Model Results

Florida – 5,330,000 pounds

Model results per county on following page

This hurricane scenario is based on a HIGH Category 2 storm making landfall in near proximity to Saint Petersburg, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 08/12/2004)*** forecast. The intensity of this hurricane has been altered to complete model runs.

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per day per person) and Ice SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Ice Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1730 EDT
08/12/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Ice Model

Landfall Expected Within *24* Hours

For Official Use Only!

State	Pounds per State	County	Pounds per County
Florida			
		Hillsborough	522,000
		Manatee	1,073,000
		Pinellas	3,722,000
		Sarasota	13,000
TOTAL	5,330,000		

The amount of ice forecasted is based on Mission Guide Book requirements (8 pounds per person) and Ice SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Isabel will have power outage in this area will cause a need for ice.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Ice Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

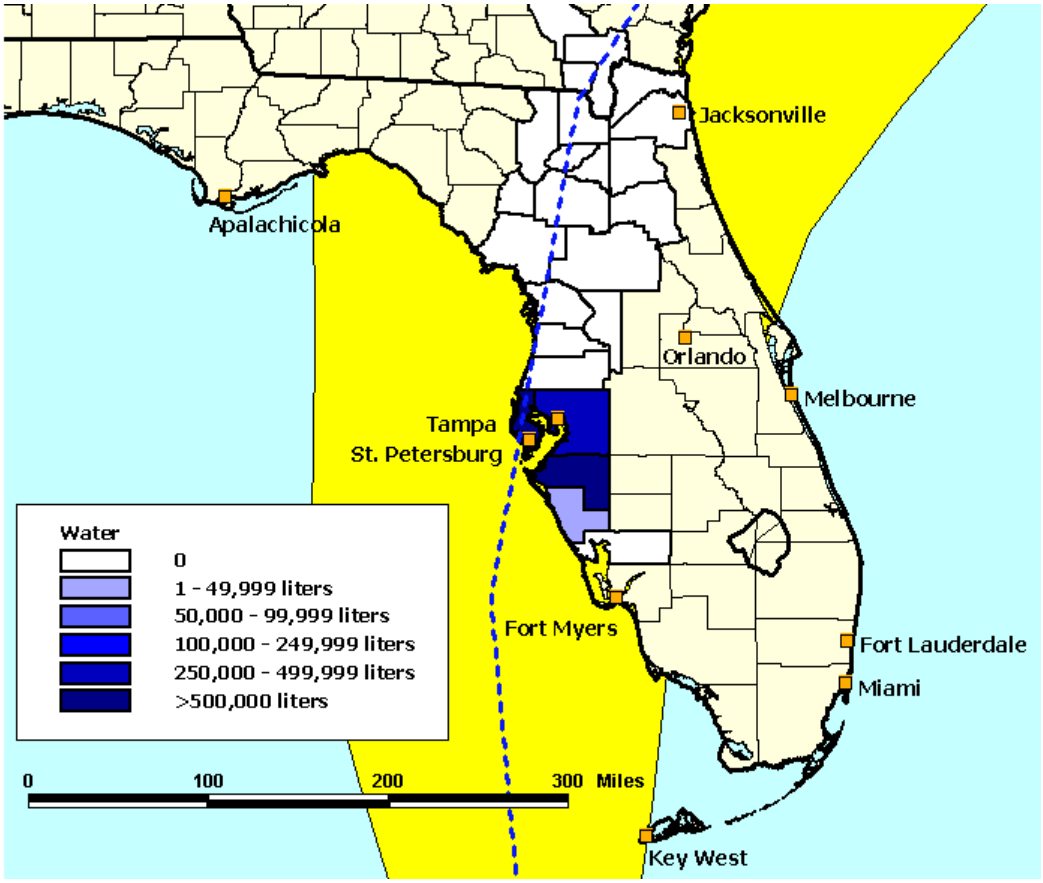
Generated By:
Terry Siemsen

Generated Date
1730 EDT
08/12/2004

Hurricane Charley Water Model

Landfall Expected Within *24* Hours

For Official Use Only!



Most Probable Landfall Water Model Results

Florida – 2,665,000 liters

Model results per county on following page

This hurricane scenario is based on a HIGH Category 2 storm making landfall in near proximity to Saint Petersburg, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 08/12/2004)*** forecast.

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person per day) and Water SME input and represents a first day daily need.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Water Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

Generated By:
Terry Siemsen

Generated Date
1730 EDT
08/12/2004

Hurricane Charley Water Model

Landfall Expected Within *24* Hours

For Official Use Only!

State	Pounds per State	County	Pounds per County
Florida			
		Hillsborough	261,000
		Manatee	536,000
		Pinellas	1,861,000
		Sarasota	7,000
TOTAL	2,665,000		

The amount of water forecasted is based on Mission Guide Book requirements (4 liters per person) and Water SME input and represents a first day daily need. The assumption in this scenario is that 60% of the resident population affected by Isabel will have power outage in this area will cause a need for water.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Water Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1730 EDT
08/12/2004

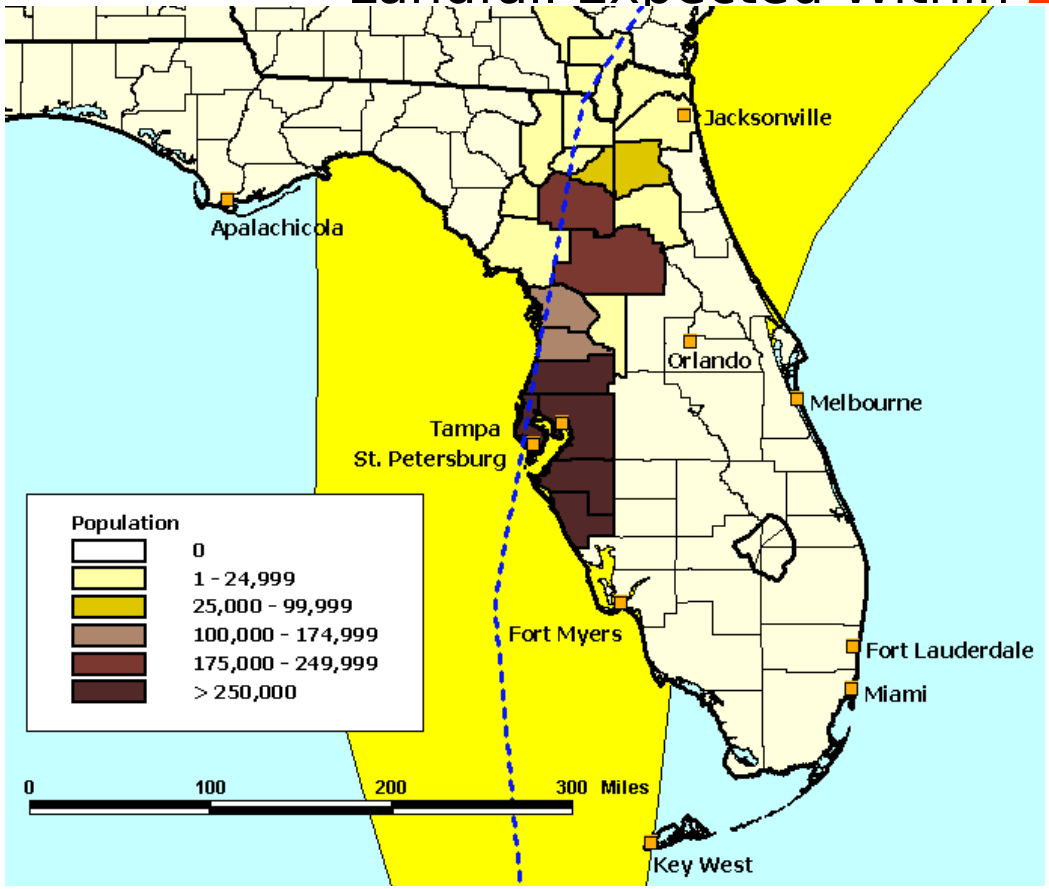
CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Population Model

Landfall Expected Within *24* Hours

For Official Use Only!



Most Probable Landfall Population Model Results

Florida – 3,568,000 persons
Georgia – 4,000 persons

Model results per county on following page

This hurricane scenario is based on a HIGH Category 2 storm making landfall in near proximity to Saint Petersburg, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 08/12/2004)*** forecast.

The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Population Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
Terry Siemsen

Generated Date
1730 EDT
08/12/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Population Model

Landfall Expected Within *24* Hours

For Official Use Only!

State	County	Population
Florida		3,568,000
	Alachua	218,000
	Baker	22,000
	Bradford	26,000
	Citrus	118,000
	Clay	27,000
	Columbia	21,000
	Duval	12,000
	Gilchrist	3,000
	Hernando	129,000
	Hillsborough	933,000
	Levy	24,000
	Manatee	254,000
	Marion	193,000
	Nassau	15,000
	Pasco	337,000
	Pinellas	906,000
	Putnam	7,000
	Sarasota	288,000
	Sumter	23,000
	Union	13,000
Georgia		4,000
	Charlton	3,000
	Ware	1,000
Total Households		3,572,000

The number of persons estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Population Model

Sources:
HURREVAC
LRL-DEBRIS

CELRL-OP GIS Group

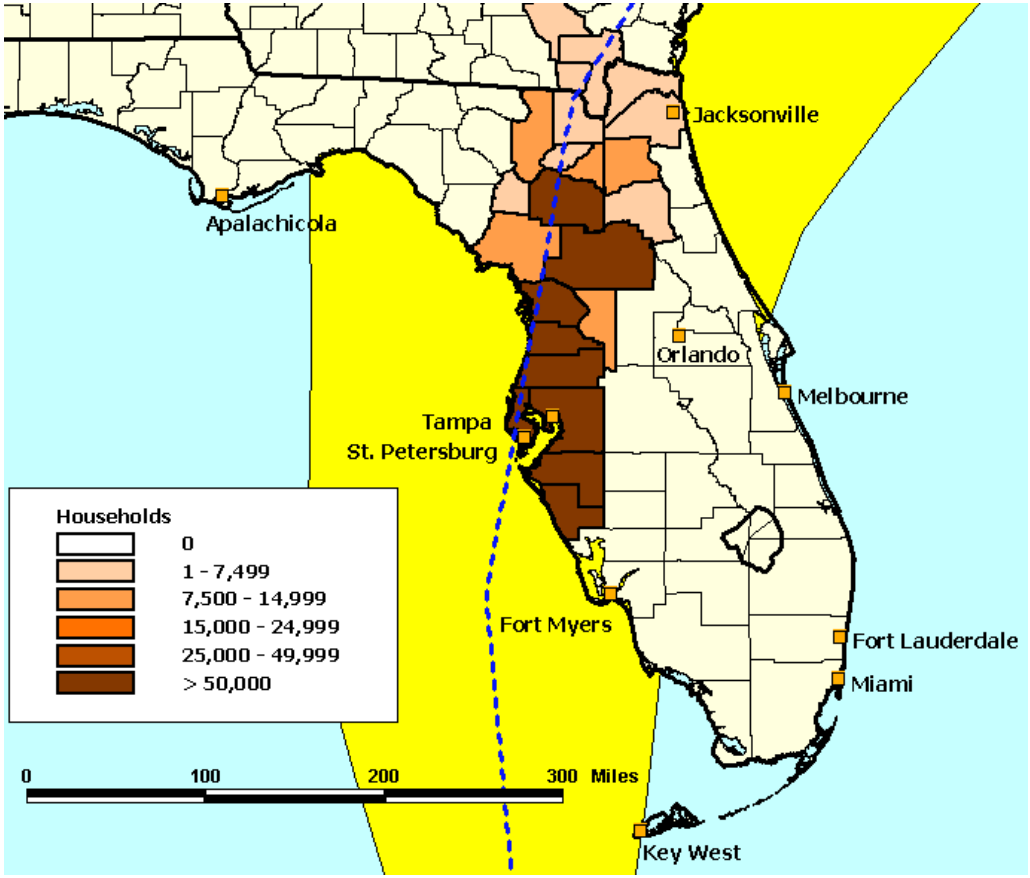
Generated By:
Terry Siemsen

Generated Date
1730 EDT
08/12/2004

Hurricane Charley Households Model

Landfall Expected Within *24* Hours

For Official Use Only!



Most Probable Landfall Households Model Results

Florida – 1,502,000 households
Georgia – 2,000 households

Model results per county on following page

This hurricane scenario is based on a HIGH Category 2 storm making landfall in near proximity to Saint Petersburg, FL

Information provided on this page displays the most probable hurricane track based on information from the National Hurricane Center (NHC). These projections are based on information from the NHC ***(1700 EDT 08/12/2004)*** forecast.

The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values).

Details about this model may be obtained at
https://englink.usace.army.mil
or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Charley Households Model

Sources:
HURREVAC
LRL-DEBRIS

Generated By:
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Generated Date
1730 EDT
08/12/2004

CELRL-OP GIS Group

Louisville Operations Division GIS

Hurricane Charley Households Model

Landfall Expected Within *24* Hours

For Official Use Only!

State	County	Households
Florida		1,502,000
	Alachua	87,000
	Baker	7,000
	Bradford	8,000
	Citrus	53,000
	Clay	9,000
	Columbia	8,000
	Duval	4,000
	Gilchrist	1,000
	Hernando	55,000
	Hillsborough	368,000
	Levy	9,000
	Manatee	109,000
	Marion	79,000
	Nassau	5,000
	Pasco	144,000
	Pinellas	407,000
	Putnam	3,000
	Sarasota	133,000
	Sumter	8,000
	Union	3,000
Georgia		2,000
	Charlton	1,000
	Ware	> 1,000
Total Households		1,504,000

The number of households estimated to be within hurricane force winds comes from Census 2000 values.

Details about this model may be obtained at
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US Army Corps of Engineers

Hurricane Charley Households Model

Sources:
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